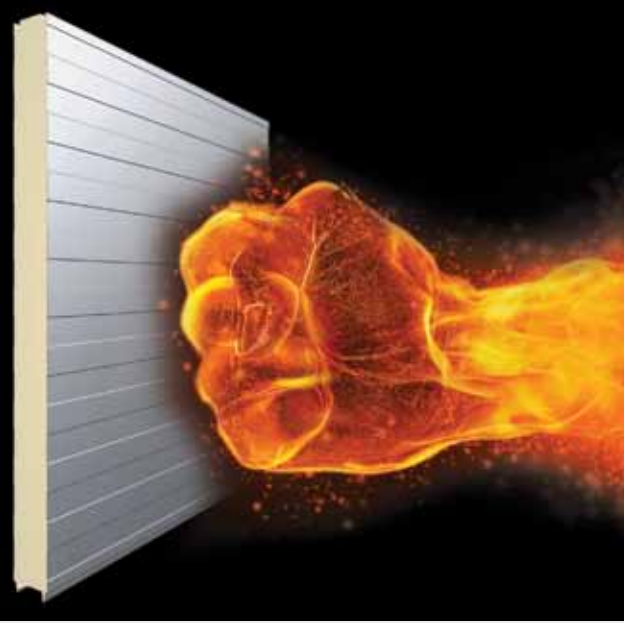


The Fire Resistance of the IPN boards are certified as class1 according to FM 4880, 4881, 4471 and B s1 d0 according to the TS EN 13501-1 as a result of the tests conducted by International Certification Bodies.



FireSafe system is approved by international insurance companies.

The following findings can be summarized from the research carried out on many real fires where Kingspan-izopoli insulated roof and wall systems were in use:

- The panels do not contribute to a fire. they are only damaged in the immediate area of the fire and self-extinguish after the fire load has gone
- When used as roof cladding, the sandwich panels resist the spread of fire and reduce radiant heat
- By forming a protective char layer, the fire is starved of oxygen between the metallic skins of the panel. The panels are thus selfextinguishing and do not contribute to a fire.
- The additional fire load caused by isophenic panels varies between 3 and 6 kWh/m² and therefore has very little effect on a fire. This very low value results from the low density of the insulating foam core which is approximately 40 kg/m³
- Thermoset rigid isophenic (IPN) does not melt or drip when exposed to fire. Thus, the danger of igniting secondary fires does not arise.
- The results from the standardised tests used to determine combustibility are confirmed completely by the behaviour of the panels in practice
- The gases given off when isophenic foam burms are less toxic than those given off by conventional building materials (e.g. wood)

For internal and external applications, Ral 9002 Polyester paint suitable to be used in food processing facilities is used as a standard in both surface iron sheets of the panels.

The Optional facing are:

- PVDF** : For inside and outside use where there is a high risk of corrosion
- Plastisol** : High elasticity and very good corrosion-prevention properties; suitable especially for internal use.
- SS 304 2B** : Rust - resistance according to EN 10088-2, for heavy duty use. (Stainless steel)

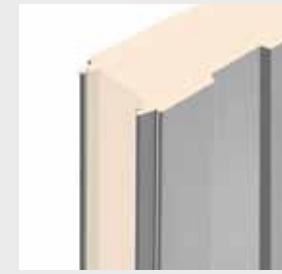
Foam Technical Data	IPN	Unit
Suggested Application Temperature	-100 ~ +100	°C
Thermal Conductivity (λ)	0,020 - 0,022	W / mk
Compressive Strength (10% to expand)	≥ 0,14	N / mm ²
Shear Strength	40 - 50 mm ≥ 0,14 60 - 80 mm ≥ 0,12 ≥ 100 mm ≥ 0,06	N / mm ²
Water Absorption (%Volume)	≤ %2	(%Volume)
Closed Cell Content	% 95	—
Fire Class	EN 13501-1 FM 4880 FM 4881 FM 4471	B s1 d0 Class 1 Class 1 Class 1

KINGSPAN İZOPOLİ SANDWICH PANEL SYSTEMS

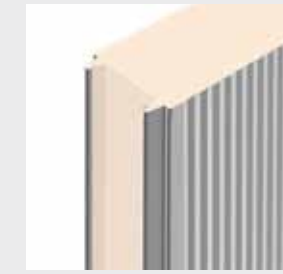
COLD STORE PANEL SYSTEMS



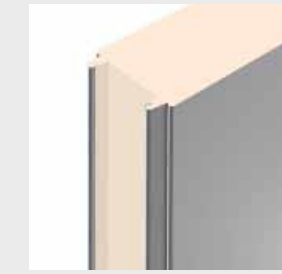
IZOCOLD



MEGACOLD

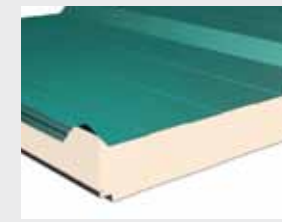


MICROCOLD

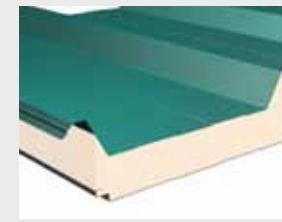


PHARMA COLD

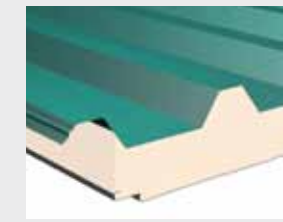
ROOF SYSTEMS



EKO PANEL



PRESTIGE PANEL



XL PANEL

MEMBRANE ROOF DECK SYSTEMS



EURO PANEL



EUROMAX

ARCHITECTURAL WALL & FACADE SYSTEMS



MICROLAMBRI



MEGALAMBRI



SUPERLAMBRI



SMOOTHLAMBRI



KINGSPAN İZOPOLİ INSULATED SANDWICH PANELS



İzopoli Yapı Elemanları Taahhüt San. ve Tic. A.Ş.

Head Office : Çırağan Cad. No:97 34347 Ortaköy / İstanbul -Türkiye Phone : +90 (212) 236 60 32 pbx Fax : +90 (212) 261 64 41

www.izopoli.com

FIREsafe™



Cold Store Panel Systems

System	Joint Detail	Panel Thickness	U Value w / m²K	Weight Kg / m²	Ceiling element span, cantilever as single - span girder		Outside walls bolt distances, single - span system Wall Height
					~m	~m	
IZOCOLD		40	0.53	9.92	3.00	2.50	2.00
MEGACOLD		45	0.47	10.12	3.50	2.88	2.25
MICROCOLD		60	0.35	10.72	5.00	4.00	3.00
PHARMA COLD		80	0.26	11.52	6.00	5.00	4.00
		100	0.21	12.32	7.00	5.50	5.00
		120	0.18	13.12	8.00	6.00	5.50
		140	0.15	13.92	8.50	6.50	5.75
		150	0.14	14.32	9.00	7.00	6.00
		170	0.12	15.12	9.00	7.00	6.00
200	0.11	16.32	10.00	7.50	6.50		

Roof Systems

System	Joint Detail	Panel Thickness	Max. Openness (m)	Load (kN / m²)			U Value w / m²K	Weight Kg / m²
				0.75	1.25	1.75		
EKO PANEL		40	Max. Openness (m)	2.10	2.00	1.80	0.49	9.35
		50		2.35	2.15	1.90	0.40	9.75
		60		2.50	2.20	2.00	0.34	10.15
		80		2.65	2.40	2.10	0.25	10.95
		100		2.80	2.55	2.40	0.20	11.75
PRESTIGE PANEL		40	Max. Openness (m)	2.60	2.35	2.10	0.48	9.54
		50		2.75	2.50	2.25	0.39	9.94
		60		2.90	2.60	2.40	0.33	10.34
		80		3.10	2.80	2.60	0.24	11.14
		100		3.30	3.00	2.80	0.20	11.94
XL PANEL		40	Max. Openness (m)	2.70	2.45	2.20	0.42	10.29
		50		2.85	2.60	2.30	0.35	10.69
		60		3.00	2.70	2.50	0.30	11.09
		80		3.20	2.90	2.70	0.23	11.89
		100		3.45	3.10	2.90	0.19	12.69

Membrane Roof Deck Systems

System	Joint Detail	Panel Thickness	Max. Openness (m)	Load (kN / m²)			U Value w / m²K	Weight Kg / m²
				0.75	1.25	1.75		
EURO PANEL		50	Max. Openness (m)	3.00	2.50	1.75	0.38	8.15
		75		3.00	2.50	1.75	0.26	9.15
		100		3.00	2.50	1.50	0.20	10.15
EUROMAX		50	Max. Openness (m)	3.00	2.50	1.75	0.42	8.26
		75		3.00	2.50	1.75	0.35	8.66
		100		3.00	2.50	1.50	0.19	10.66

Architectural Wall & Facade Systems

System	Joint Detail	Panel Thickness	Max. Openness (m)	Load (kN / m²)			U Value w / m²K	Weight Kg / m²
				0.75	1.25	1.75		
MICROLAMBRI		40	Max. Openness (m)	1.90	1.70	1.50	0.53	10.42
		50		2.01	1.80	1.60	0.42	10.82
		60		2.10	1.90	1.70	0.35	11.22
		80		2.25	2.00	1.90	0.26	12.02
		100		2.40	2.20	2.00	0.21	12.82
MEGALAMBRI		40	Max. Openness (m)	2.00	1.80	1.60	0.60	10.09
		50		2.12	1.90	1.70	0.47	10.49
		60		2.20	2.00	1.80	0.38	10.89
		80		2.35	2.15	2.00	0.28	11.69
		100		2.50	2.30	2.15	0.22	12.49
SUPERLAMBRI		40	Max. Openness (m)	1.90	1.70	1.50	0.53	10.42
		50		2.01	1.80	1.60	0.42	10.82
		60		2.10	1.90	1.70	0.35	11.22
		80		2.10	2.00	1.90	0.26	12.02
		100		2.40	2.20	2.00	0.21	12.82
SMOOTHLAMBRI		40	Max. Openness (m)	1.85	1.65	1.45	0.53	10.42
		50		2.96	1.75	1.55	0.42	10.82
		60		2.05	1.85	1.65	0.35	11.22
		80		2.20	1.95	1.85	0.26	12.02
		100		2.35	2.15	1.95	0.21	12.82